

## CLAIMS

1. A hinge device comprising a first hinge member (2) which is provided at one and the other end part thereof with mutually opposing first and second support arm parts (2b, 2c), a second hinge member (3) provided with a connecting cylindrical part (3a) which is disposed between said first and second support arm parts (2b, 2c) in such a manner as to be turnable about a rotation axis (L), and a damper unit (16, 17) including a stator (16a, 17a), a rotor (16b, 17b) one end part of which is turnably received in said stator (16a, 17a) and the other end part of which is projected from said stator (16a, 17a) and a damper mechanism disposed between said stator (16a, 17a) and one end part of said rotor (16b, 17b), high-speed turn at least in one direction between said first hinge member (2) and said second hinge member (3) being prevented by said damper unit (16, 17),

wherein a support through-hole (2e) passing on said rotation axis (L) is formed in said first support arm part (2b), a support hole (2e') is formed in an opposing surface with respect to said first support arm part (2b) of said second support arm part (2c) with an axis thereof aligned with that of said support through-hole (2e), a front end part of a hinge pin (9) inserted in said support through-hole (2e) through an outer opening part thereof and passing through said connecting cylindrical part (3a) is fitted to said support hole (2e'), a rear end part of said hinge pin (9) is fitted to said support through-hole (2e), said hinge pin (9) is fitted to opposite end parts of said connecting cylindrical part (3a), thereby turnably connecting said first and second support arm parts (2b, 2c) with said connecting cylindrical part (3a) through said hinge pin (9), at least one of said stator (16a, 17a) and the other end part of said rotor (16b, 17b) of said damper unit (16, 17) is

non-turnably received in a receiving hole (9c) formed in at least one of a front end face and a rear end face of said hinge pin (9), the other of said stator (16a, 17a) and the other end part of said rotor (16b, 17b) is non-turnably received in one of said support through-hole (2e) and said support hole (2e') to which one end part of said hinge pin (9), where said receiving hole (9c) is formed therein, is fitted, and a coiled spring (18) for turn biasing said connecting cylindrical part (3a) with respect to one of said first support arm part (2b) and said second support arm part (2c) is disposed between an inner peripheral surface of said connecting cylindrical part (3a) and an outer peripheral surface of said hinge pin (9).

2. A hinge device according to claim 1, wherein said stator (16a, 17a) is non-turnably received in said receiving hole (9c) and the other end part of said rotor (16b, 17b) is non-turnably received in one of said support through-hole (2e) and said support hole (2e') to which one end part of said hinge pin (9), where said receiving hole (9c) is formed, is fitted.

3. A hinge device according to claim 2, wherein said receiving hole (9c) is formed in a rear end face of said hinge pin (9), a connecting plate (4) is detachably fixed to the inside of said support through-hole (2e), the other end part of said rotor (16b, 17b) is non-turnably fitted to an engagement hole (4a) formed in said connecting plate (4), thereby the other end part of said rotor (16b, 17b) is non-turnably received in said support through-hole (2e).

4. A hinge device according to claim 1, wherein said receiving hole (9c) is formed in each of opposite end faces of said hinge pin (9), said

stator (16a, 17a) of said damper unit (16, 17) is non-turnably received in each of said receiving holes (9c), and the other end parts of said rotors (16b, 17b) of said damper units (16, 17) are non-turnably received in said support through-hole (2e) and said support hole (2e'), respectively.

5. A hinge device according to claim 4, wherein said support hole (2e') is formed as a through-hole, said connecting plates (4) are detachably fixed to the insides of said support through-hole (2e) and said support hole (2e'), and the other end parts of said rotors (16b, 17b) are non-turnably fitted to engagement holes (4a) formed in said respective connecting plates (4), thereby the other end parts of said respective rotors (16b, 17b) are non-turnably received in said support through-hole (2e) and said support hole (2e'), respectively.

6. A hinge device according to claim 5, wherein said receiving hole (9c) is formed as a through-hole, an intermediate member (14) is non-turnably disposed at a central part of said receiving hole (9c), said stators (16a, 17a) are received in opposite end parts of said receiving hole (9c), respectively, and said stators (16a, 17a) are non-turnably connected to said intermediate member (14).